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SILICA BATTERIES PYROLYSIS RECOVER

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### Silicon/carbon composites as anode materials for Li-ion **batteries**

Y Liu, K Hanai, J Yang, N Imanishi, A Hirano, ... - Electrochemical and solid-state letters, 2004 - link.aip.org

... was adopted involving two PVC **pyrolysis** reactions, combined ... matrix to form a **silicon**/disordered carbon ... the anode material for Li-ion **batteries**, the composite ...

Cited by 14 - Related articles - BL Direct - All 3 versions

### End-of-life management and recycling of PV modules- ► [columbia.edu](#) (pdf)

VM Fthenakis - Energy Policy, 2000 - Elsevier

... to smelter operators who buy **silica** for their ... and eventually used as feedstock for NiCd **batteries**. ... Solar International (PSI) also used **pyrolysis** to recover x ...

Cited by 41 - Related articles - BL Direct - All 12 versions

### Process for remediation of lead-contaminated soil and waste **battery**

JA Bitler, JP Baranski - US Patent 5,284,503, 1994 - Google Patents

... off com- of 2.44 pounds of soil, 0.61 pounds of **battery** casings (in P ... and the slag was ments prior to and after **pyrolysis** by the ... poured into a bed of **silica** sand ...

Cited by 6 - Related articles - All 2 versions

### **Pyrolysis** of used automobile tires and residual char utilization

AA Zabaniotou, G Stavropoulos - Journal of Analytical and Applied **Pyrolysis**, 2003 - Elsevier

... c) special applications such as **batteries**, fuel cells ... The apparatus employed for the **pyrolysis** of used tires ... a cylindrical plexiglass tube containing **silica** gel ...

Cited by 35 - Related articles - All 5 versions

### Polysiloxane **Pyrolysis**

AM Wilson, G Zank, K Eguchi, W Xing, B Yates ... - Chem. Mater, 1997 - pubs.acs.org

... candidates for anode materials of Li-ion **batteries**. ... should be in the resulting **silicon** oxycarbide glasses ... to have fragmented violently during **pyrolysis**, and it ...

Cited by 5 - Related articles - BL Direct - All 3 versions

### An overview on the current processes for the recycling of **batteries**

DCR Espinosa, AM Bernardes, JAS Tenório - Journal of Power Sources, 2004 - Elsevier

... is drained and treated for Cd **recovery** and then sold ... containing Cd first goes through a **pyrolysis** process to ... and it is sold to NiCd **batteries** manufacturers or ...

Cited by 26 - Related articles - All 8 versions

### Process for remediation of lead-contaminated soil and waste **battery** casings

JA Bitler, JP Baranski - US Patent 5,788,735, 1998 - Google Patents

... ppm) of various elements prior to and after **pyrolysis** by the ... lbs of a mixture comprised of soil, **battery** cases, flux ... slag was poured into a bed of **silica** sand. ...

Cited by 5 - Related articles - All 8 versions

### Synthesis of pentacoordinate **silicon** complexes from SiO<sub>2</sub>- ► [umich.edu](#) (pdf)

RM Laine, KY Blohowiak, TR Robinson, ML ... - Nature, 1991 - deepblue.lib.umich.edu

... as an ion conductor for **battery** applica- tions16 ... Finally, **pyrolysis** of the glycolato silicates leads directly ... discussions and gifts of fused **silica** and virgin ...

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[Inorganic materials for the negative electrode of lithium-ion \*\*batteries\*\*: state-of-the-art and ...](#)

JL Tirado - Materials Science & Engineering R, 2003 - Elsevier

... can be considered to be a third generation of lithium-ion **batteries**, having high ...  
forms of carbon is not an expensive process, such as **pyrolysis** of organic ...

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► [Biopitch produced from eucalyptus wood \*\*pyrolysis\*\* liquids as a renewable binder for carbon](#)

...

JD Rocha, AR Coutinho, CA Luengo - Brazilian Journal of Chemical Engineering, 2002 - SciELO Brasil

... **Silicon** for semiconductors, new **batteries**, aircraft structures ... This study shows an  
application for bio-oil from slow carbonization or from fast **pyrolysis**. ...

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